

**CAPACITIVE RELAY TAKEOFF
SWIMMING PLATFORM SENSOR SYSTEM**

PARTS LIST

10	capacitive relay takeoff swimming platform sensor system	36	scoreboard
		38	banana plug
12a-n	swimming lane stations	40	cable
14	swimming pool	42	jack
16	relay takeoff swimming platform	44	jack
18	sensing mat	46	cable
18a	horizontally oriented portion	48	control buttons
18b	vertically oriented portion	50	conductive exterior layer
20	housing	52	conductive sense electrode
22	sensor circuit	54	charge-transfer touch integrated circuit
24	touchpad	56	conductive ground electrode
26	touchpad sensor	58	insulator layer
		60	insulator layer
28	lane module	62	insulator layer
30	cable	64	capacitive monitor circuit
31	plugs	65	resistor
32	timer	66	sampling capacitor
34	start system		

67	resistor	98	input filt r
68	RC circuit		capacitor
70	capacitor	100	diode
72	resistor	102	resistor
		104	resistor
74	switching transistor	106	diode
76	diode	108	output filter
78	diode		capacitor
80	battery circuit	110	bypass capacitor
82	lithium battery	111	Zener diode
83	regulated power supply	112a-n	programming cables
84	battery		
86	battery		
87	battery test circuit		
88	test switch		
89	switching transistor		
90	LED		
92	battery protection circuit		
94	switching transistor		
95	switching transistor		
96	diode		
97	diode		

FIG. 1

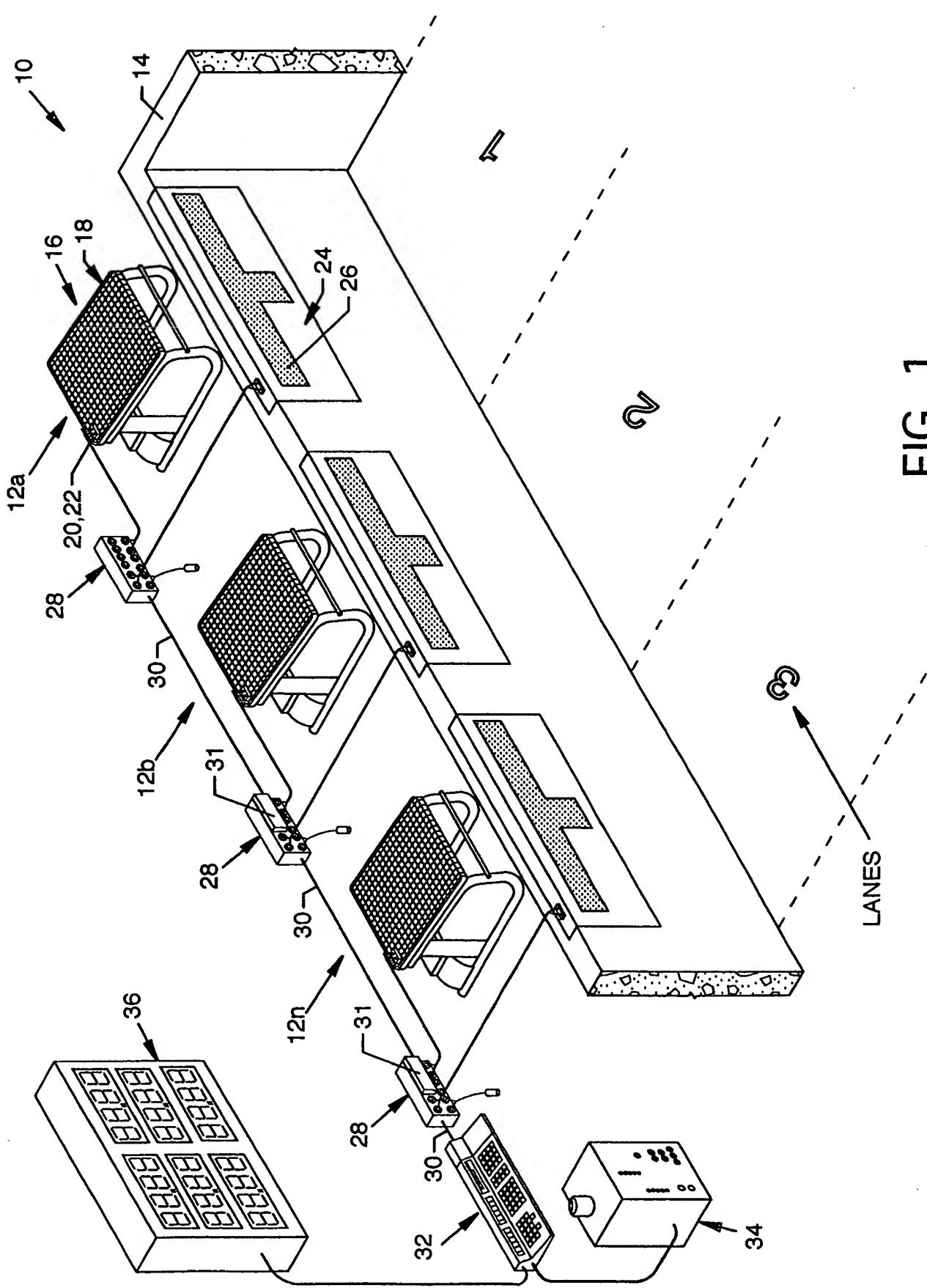


FIG. 2

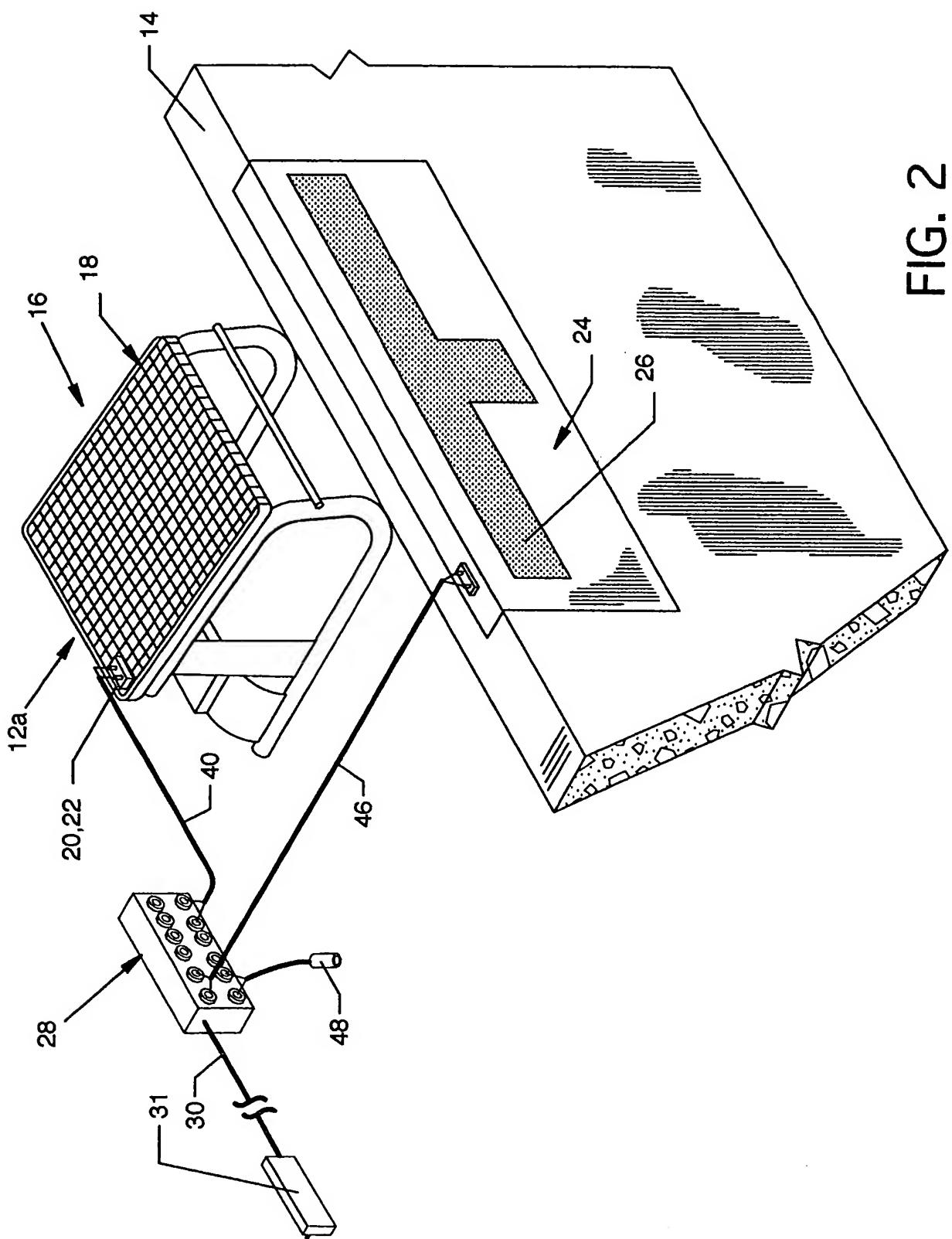
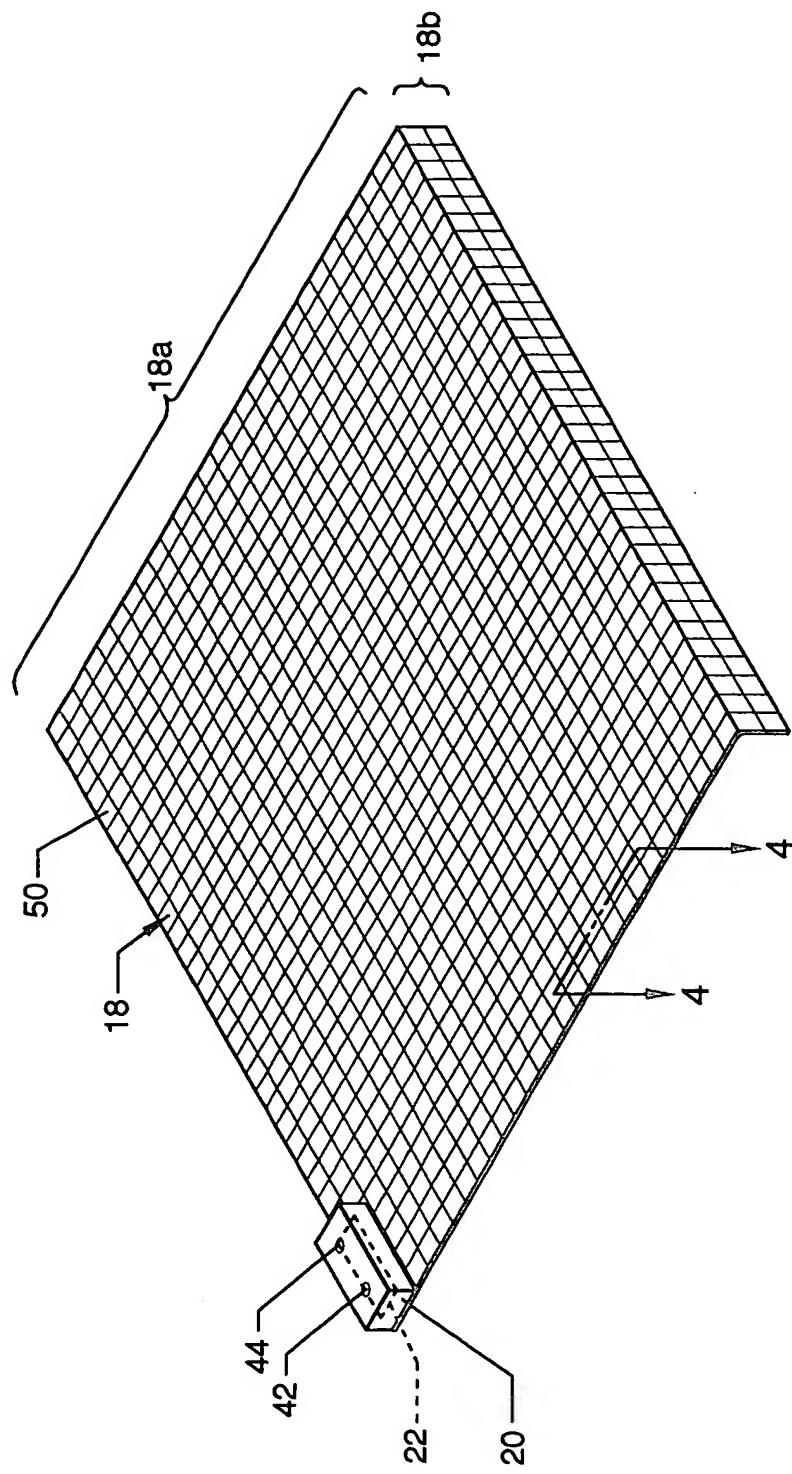


FIG. 3



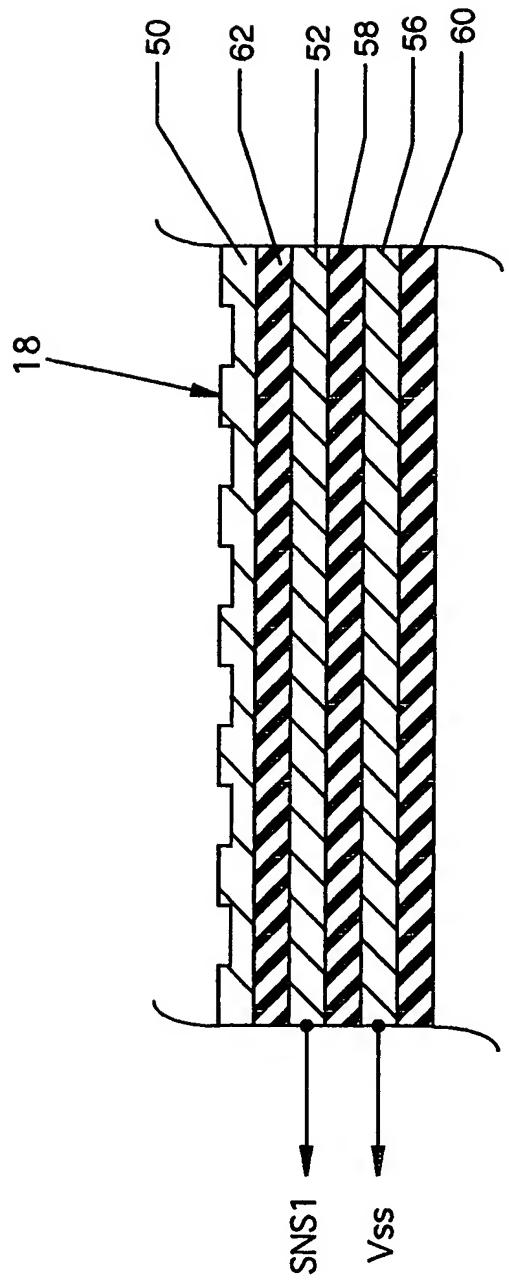
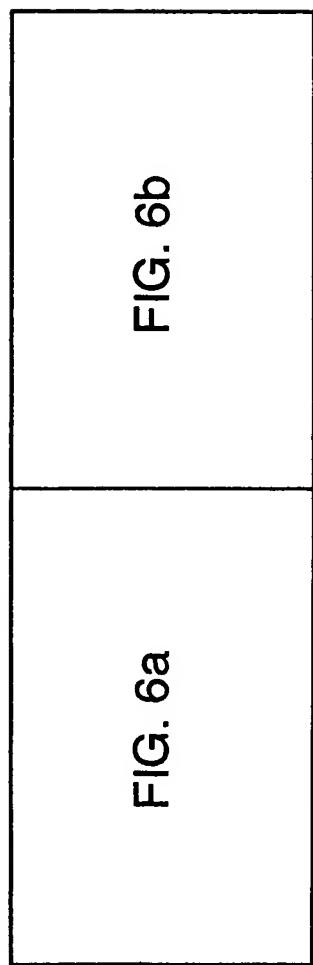


FIG. 4

FIG. 5



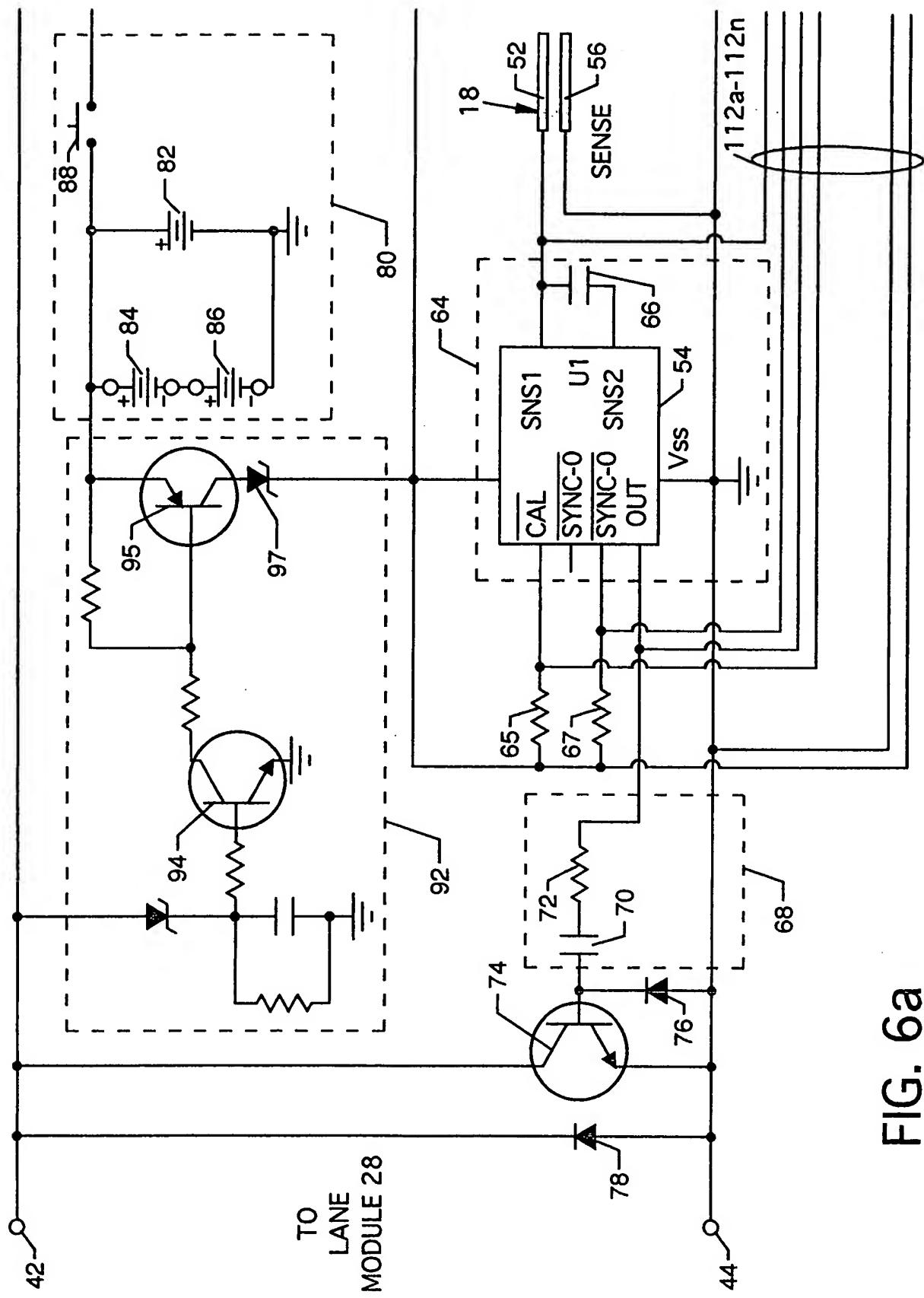


FIG. 6a

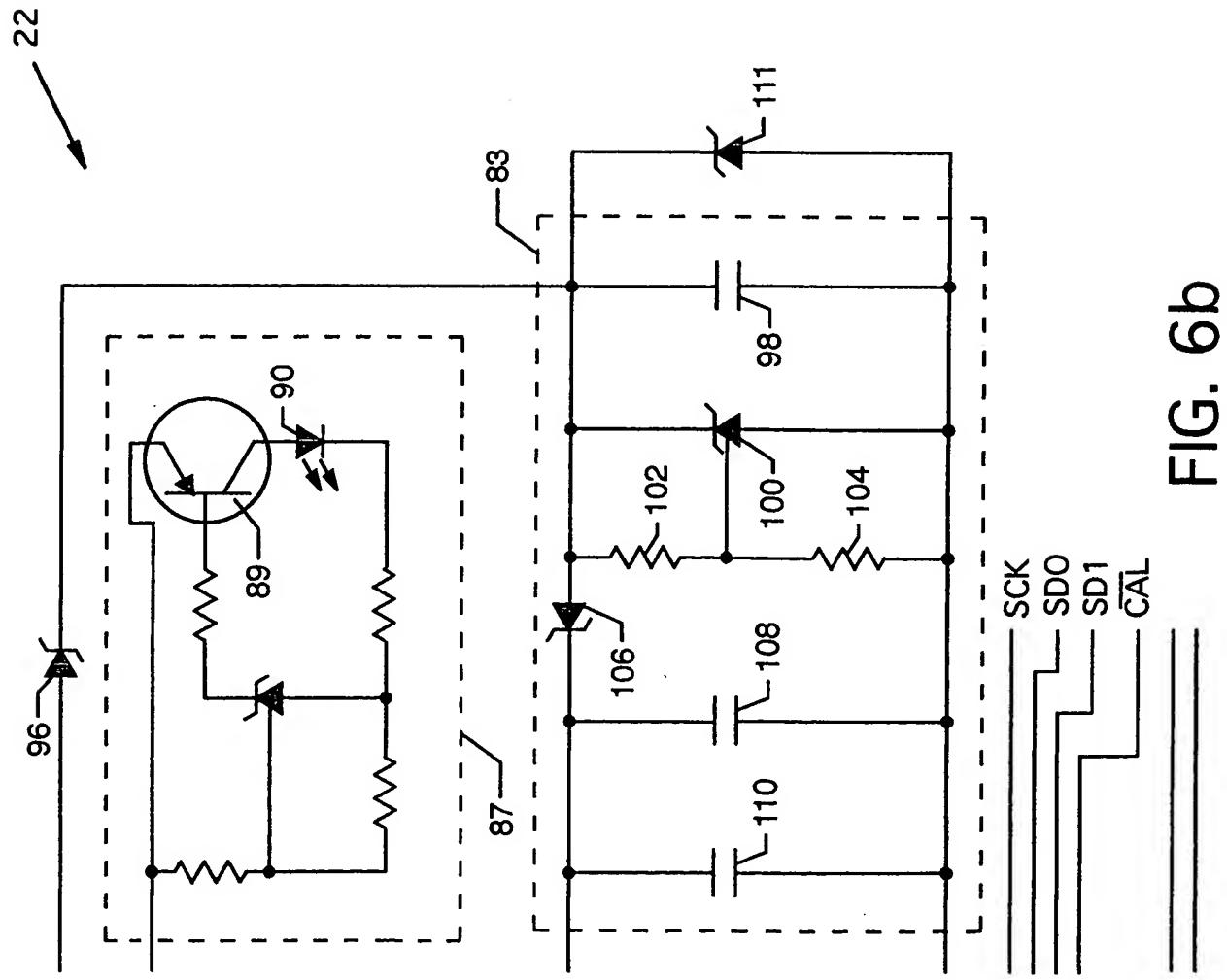


FIG. 6b

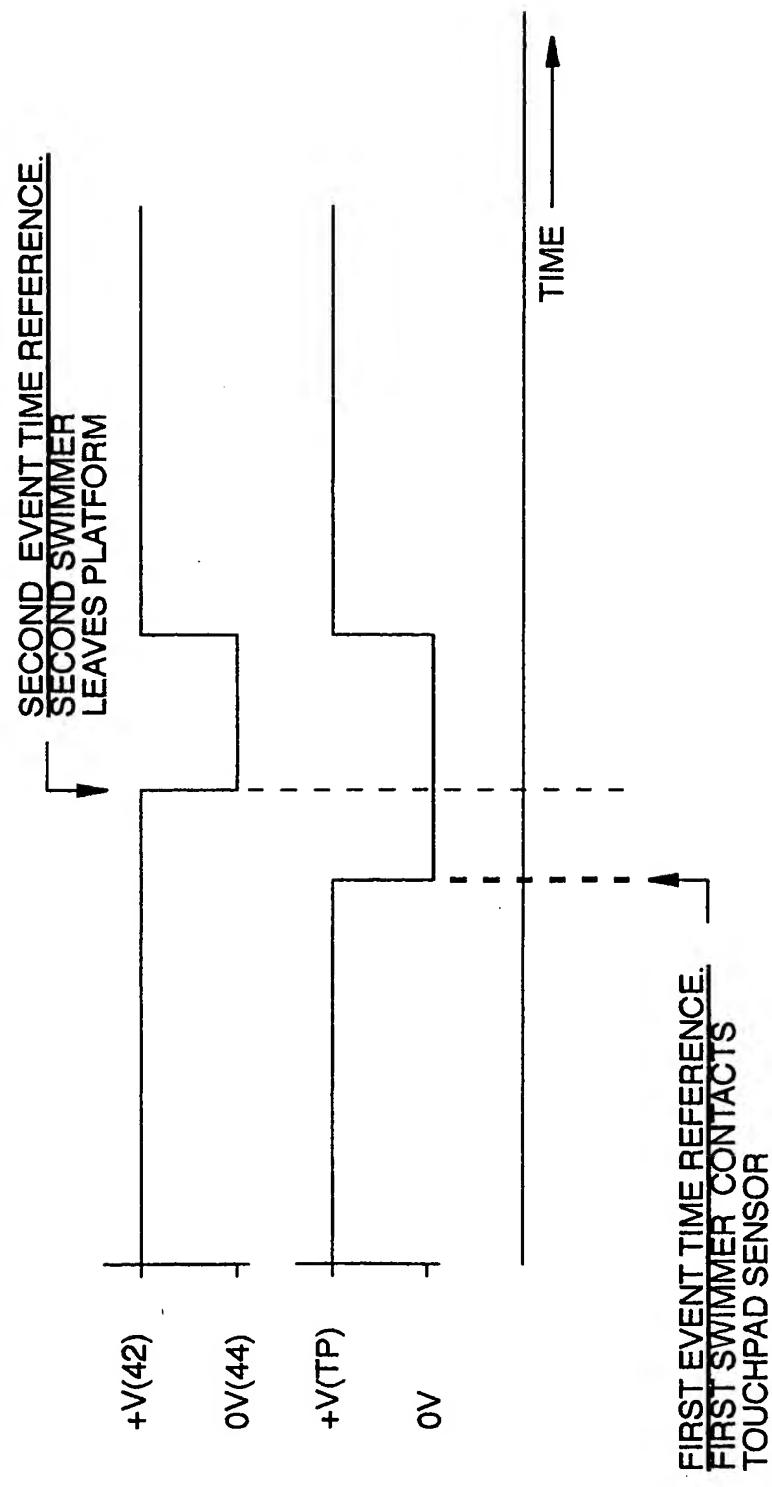


FIG. 7

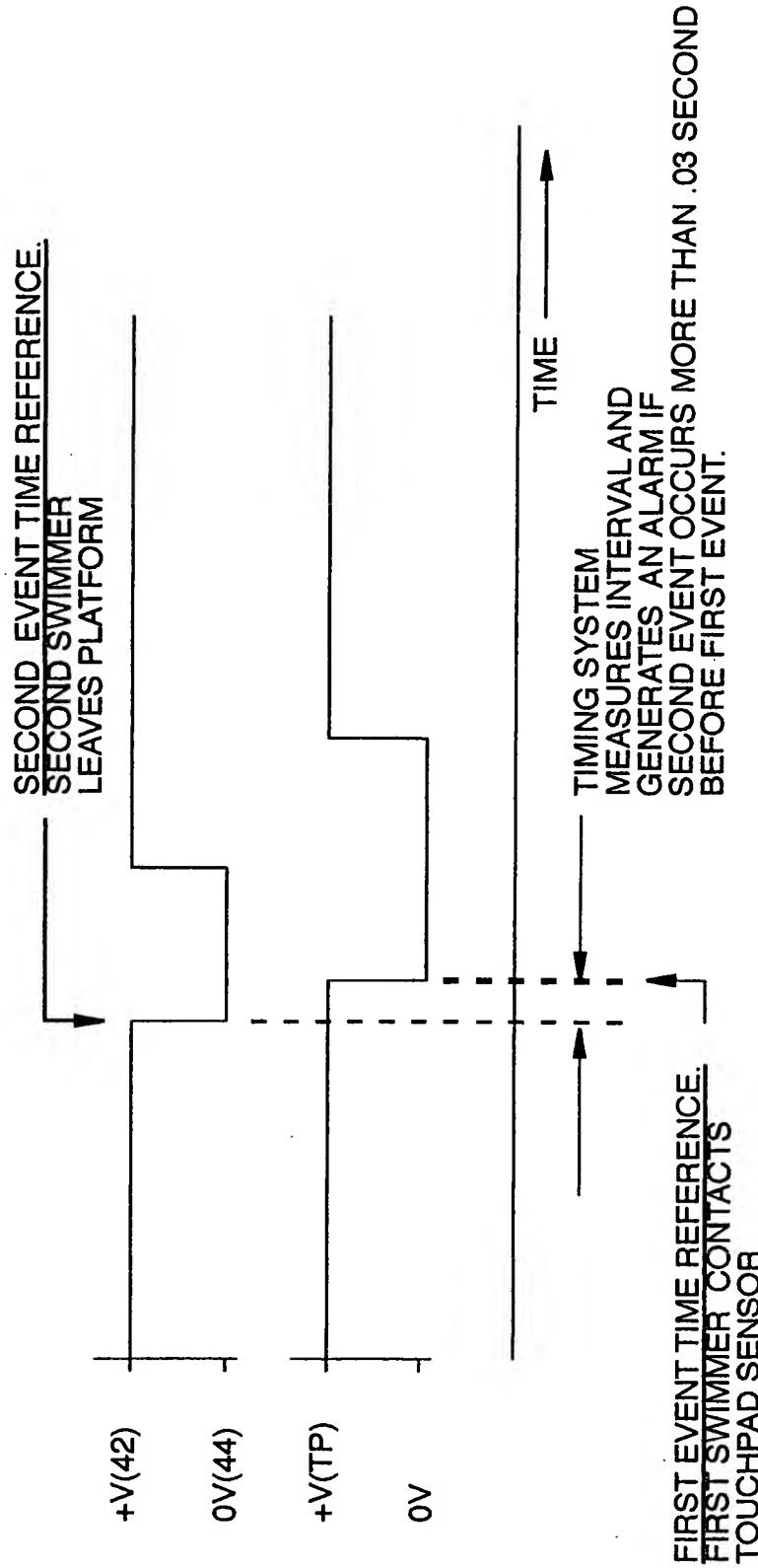


FIG. 8